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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/299,388	04/27/1999	RICHARD FOTLAND	99.01	3198	
75	590 12/11/2002				
HAYES SOLOWAY HENNESSEY GROSSMAN & HAGE			EXAMINER		
175 CANAL S'		CHOI, FRANK I			
MANCHESTE	R, NH 031012335	onoi, na ilux			
			ART UNIT	PAPER NUMBER	
			1616		
			DATE MAILED: 12/11/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No		Applicant(s)			
Office Action Summary		09/299,388		FOTLAND ET AL.			
		Examiner		Art Unit			
		Frank I Choi		1616			
	The MAILING DATE of this communication app	ears on the cove	r sheet with the c	orrespondence address			
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status	6						
1)🖂	· · · · · · · · · · · · · · · · · · ·						
2a)⊠	,—	is action is non-					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	Disposition of Claims						
4)⊠ Claim(s) <u>1,3-9,14-23,25-30,32-37,48,49,51-57,59,60,62-67 and 69-71</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	Claim(s) is/are allowed.						
6)⊠	6)⊠ Claim(s) <u>1,3-9,14-23,25-30,32-37,48,49,51-57,59,60,62-67 and 69-71</u> is/are rejected.						
7)	7) Claim(s) is/are objected to.						
,	Claim(s) are subject to restriction and/or	r election require	ement.				
	on Papers						
	The specification is objected to by the Examiner						
10)[_]	The drawing(s) filed on is/are: a)☐ accep		-				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
•							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
1. ☐ Certified copies of the priority documents have been received.							
	Certified copies of the priority documents have been received in Application No						
Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
 a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 							
Attachment(s)							
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	4) 5) 6)		(PTO-413) Paper No(s) Patent Application (PTO-152)			

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DETAILED ACTION

Claim Objections

Claim 24 is missing. Appropriate correction is requested.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1, 48 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Claims 1 and 48 recite "essentially a zero velocity" and "with said aerosol essentially stationary in said second region", respectively. Applicant asserts that the same does not constitute new matter, however, no reference was made to the Specification supporting said language and Examiner was unable to locate the same. As such, it appears that a skilled artisan would have not immediately envisaged said claim limitations.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 3-9,14-23,25-30,32-37, 48, 49,51-57,59,60,62-67, 69-71 are rejected under 35 U.S.C. 112, second paragraph, as failing to set forth the subject matter which applicant(s) regard as their invention. Evidence that the claims fail to correspond in scope with that which applicant(s) regard as the invention can be found in Paper No. 18 filed 2/10/2002. In that paper, applicant has stated "In Applicants' claimed invention, the particles have essentially zero velocity relative to the gas that carries them, and no momentum towards the target substrate.

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Thus, these particles will not deposit unless they are motivated to do so by another force, which in the case of Applicant's claimed invention is the electric field imposed by the deposition zone". (Amendment (2/10/2002), pg. 13), and this statement indicates that the invention is different from what is defined in the claim(s) because the claims do not appear to indicate that the particles have zero velocity relative to the gas and that the electric field is the sole method by which the particles are deposited on the substrate.

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Examiner has duly considered Applicant's arguments but deems them unpersuasive.

Claim 48 was amended "with said aerosol essentially stationary in said second region", however, it is uncertain how the same equates to zero velocity of the particles relative to the gas. Examiner acknowledges Applicant's citation to Section 706.04, however, the rejection herein was necessitated by Applicant's statements in Amendment (2/10/2002) indicating that the invention was other then what was claimed.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 3,5,7,22,23,25,26,28,29,31-37, 57,59-63,67,69-71 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over WO 98/42446.

WO 98/42446 expressly discloses a method of depositing charged nanodrops on to a substrate using an alternating electrical current falling within the scope of applicant's claims (See Figures and Claims).

Alternatively, at the very least the claimed invention is rendered obvious within the meaning of 35 USC 103, because the prior art discloses products and uses that contain the same exact ingredients/components as that of the claimed invention. See In re May, 197 USPQ 601, 607 (CCPA 1978). See also Ex parte Novitski, 26 USPQ2d 1389, 1390-91 (Bd Pat. App. & Inter. 1993).

Examiner has duly considered Applicants' arguments but deems them unpersuasive.

Applicant argues that '446 moves charged particles toward the target substrate by mechanical force of the spray nozzle, as opposed to Applicants' claims which require use of an alternating electrical field. However, '446 expressly disclose the use of alternating electrical fields. Examiner acknowledges Applicant's citation Section 706.04, however, the rejection was necessitated, not withstanding the prior Examiner's Office Action, because the reference clearly read on the rejected claims.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

A facsimile center has been established in Technology Center 1600. The hours of operation are Monday through Friday, 8:45 AM to 4:45 PM. The telecopier numbers for accessing the facsimile machines are (703) 308-4556 or (703) 305-3592.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Frank Choi whose telephone number is (703) 308-0067. Examiner maintains a flexible schedule. However, Examiner may generally be reached Monday-Friday, 8:00 am -5:30 pm (EST), except the first Friday of the each biweek which is Examiner's normally scheduled day off.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's Supervisor, Mr. José Dees, can be reached on (703) 308-4628. Additionally, Technology Center 1600's Receptionist and Customer Service can be reached at (703) 308-1235 and (703) 308-0198, respectively.

Frank I. Choi December 2, 2002

> JOHN PAK PRIMARY EXAMINER GROUP 1800

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